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For: Conductive (electrical ionic, and photoelectric) Polymer Membrane Articles, and
Method for Producing Same

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ABSTRACT

A conductive (electrical, ionic, and photoelectric) polymer membrane article, comprising a non-woven membrane of polymer fibers, wherein at least some of the fibers have diameters of less than one micron; and wherein the membrane has an electrical conductivity of at least about 10^{-6} S/cm. Also disclosed is the method of making such an article, comprising electrostatically
10 spinning a spin dope comprising a polymer carrier and/or a conductive polymer or conductive nanoparticles, to provide inherent conductivity in the article.